

LYASHCHENKO, YIL. N.

USSR/Physical Chemistry - Crystals.

B-5

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 276

Author : N.I. Bashilova, M.N. Lyashchenko.

Inst : Academy of Sciences of USSR.

Title : Crystallographic Study of Sulfates of Monovalent Thallium.

Orig Pub : Dokl. AN SSSR, 1957, 114, No 2, 314-315

Abstract : Crystals of $Tl_3H(SO_4)_2$, $TlHSO_4$ and $Tl_2H_4(SO_4)_3$ were studied

crystallo-optically and goniometrically. It was found that $TlHSO_4$ crystallizes in two modifications: in an acicular α -form and in a laminar β -form.

Card 1/1

ACCESSION NR: AP4010054

S/0021/64/000/001/0003/0007

AUTHOR: Lyashchenko, M. Ya.

TITLE: On the numerical solution of one class of nonlinear integro-differential equations.

SOURCE: AN UkrRSR. Dopovidi, no. 1, 1964, 3-7

TOPIC TAGS: nonlinear integro-differential equation, mechanical quadrature, numerical solution, integro-differential equation solution, Cauchy problem, Newton's method.

ABSTRACT: A scheme is proposed for the numerical solution of one class of nonlinear integro-differential equations of form

$$y(x) = f(x) + \int_a^x K(x,s)F(x,s,y(s),y'(s),\dots,y^{(n-1)}(s))ds, \quad (1)$$

combining the methods of mechanical quadratures, differentiation with respect to the parameter and Newton's method. Differentiation with respect to the parameter and the integrals of the system of ordinary differential equations obtained

Card 1/2

ACCESSION NR: AP4010054

by numerical integration is used in this scheme as a zero approximation in Newton's method. The scheme is readily and simply realized on modern computing machines. This method is applicable to the solution of Cauchy's problem and the boundary-value problems for integro-differential equations. Orig. art has: 11 numbered equations.

ASSOCIATION: Ky*yivs'ky*y Derzhavny*y Pedagogichny*y Insty*tut (Kiev State Pedagogical Institute)

SUBMITTED: 20Dec63

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: MA

NO REF SOV: 004

OTHER: 000

Card

2/2

LYASHCHENKO M.

Lyashchenko, Nadezhda

Sixteen years at the steering wheel. Krest'ianka 20 no. 6, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, August 1952. UNCLASSIFIED.

L 45237-66 TCH

ACC NR: AN6008396

SOURCE CODE: UR/9008/65/000/285/0002/0002

AUTHOR: Lyashchenko, N., (Colonel General, Commanding General of the Volga Military District)

16
B

ORG: none

TITLE: Military training of cadets at officer candidate schools of the Volga Military District

SOURCE: Krasnaya zvezda, 4 Dec 65, p. 2, col. 1-7

TOPIC TAGS: military training, political education, physical education

ABSTRACT: The author reviews military training, physical education, and political indoctrination of cadets trained in officer candidate schools of the Volga Military District and analyzes the level of technical and special training of graduates from military schools. Shortcomings in training programs of military schools are discussed.

[NT]

SUB CODE: 15/ SUBM DATE: none/

Card

1/1 LC

LYASHCHENKO, N.N.

Pouring systems used in casting with melted-out patterns. [Izd.]
LONITOMASH 45:99-106 '58. (MIRA 11:6)
(Founding)

LYASHENKO, N.I.

Dormant buds in shrubs. Bot. zhur. 43 no.7:1039-1147 J. '58.
(MIRA 11:9)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.

(Shrubs) (Buds)

AUTHOR: Lyashenko, N. I. SOV/ 20-120-1-55/63

TITLE: On the Ramification of Dormant Buds in Shrubs (O vetvlenii spyashchikh pochk kустarnikov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 1, pp. 199 - 200 (USSR)

ABSTRACT: The dormant buds form an important reserve in the restoration of plant organs. Their biological properties, especially those mentioned in the title above, are little investigated. A bibliography with reference to the formation of dormant buds is given (References 1-7). The aim of the present paper was to investigate the process mentioned above in widely spread ornamental plants: common lilac (Syringa vulgaris), Tatarian honeysuckle (Lonicera tatarica), mock orange (Philadelphus coronarius) and round-leaved whitethorn (Crataegus rotundifolia). In order to investigate the ramification stages of the mentioned buds transverse sections were made successively through branches of different age, starting with the 1 year old ones. The results show that the process of ramification in dormant buds of common lilac takes place as a consequence of the disposition of axillary buds in the parent dormant bud. This takes place in the first year of

Card 1/2

On the Ramification of Dormant Buds in Shrubs

30V20-120-1-55/63

the formation of the parent reproduction bud. In the order shrubs mentioned above the stages of the process discussed are the same as in common lilac. Thus the process treated is essentially identical with that in trees (References 2,4) and in sub-shrubs (Reference 6). There are 2 figures and 7 references, 6 of which are Soviet.

ASSOCIATION: Botanicheskiy institut im. V. L. Komarova Akademii nauk SSSR
(Botanical Institute imeni V. L. Komarov, AS USSR)

PRESENTED: February 3, 1958, by V. N. Sukachev, Member, Academy of Sciences, USSR

SUBMITTED: December 19, 1957

1. Plants--Properties 2. Plants--Growth 3. Plants--Test results

Card 2/2

SHKLENNIK, Ya.I.; BARANOV, A.V.; IVANOV, V.N.; KAZENNOV, S.A.; KURCHMAN,
B.S.; LYASHCHENKO, N.N.; MARULIDI, R.A.; MILITSIN, G.K.;
OZEROV, V.A.; SITNICHENKO, A.I.; TELIS, M.Ya.; KHEPKIN, M.L.;
TITOV, N.D., kand.tekhn.nauk, retsenzent; KLAUZEN, A.I., inzh.,
retsenzent; MARKIZ, Yu.L., inzh., red.; TIKHANOV, A.Ya., tekhn.red.;
CHERNOVA, Z.I., tekhn.red.; EL'KIND, V.D., tekhn.red.

[Precision casting] Lit'e po vyplavliaemym modeliam. Leningrad,
1961. 455 p. (MIRA 15:2)
(Precision casting)

LYASHCHENKO, V.N.

7

PHASE I BOOK EXPLOITATION

SOV/5976

Shklennik, Ya. I., A. V. Baranov, V. N. Ivanov, S. A. Kazennov, B. S. Kurchman,
N. N. Lyashchenko, R. A. Marulidi, G. K. Militain, V. A. Ozerov, A. I.
Situtichenko, N. Ya. Tella, and M. L. Khenki.

Lit'ye po vyplavlyayemym modelyam (Investment Casting) [Leningrad] izhgiz
[1961] 455 p. (Series: Inzhenernyye monografii po liteynomu proizvodstvu)
Errata slip inserted. 8000 copies printed.

Eds. (Title page): Ya. I. Shklennik and V. A. Ozerova; Reviewers: N. D. Titov,
Candidate of Technical Sciences, and A. I. Klauzen, Engineer; Ed.: Yu. L. Markis,
Engineer; Tech. Eds.: A. Ya. Tikhonov, Z. I. Chernova and V. D. El'kind; Man-
aging Ed. for Literature on Hot-Working of Metals: S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for engineering and technical personnel in the
metalworking industry and for scientific research workers. It may also be used
by students specializing in foundry work.

COVERAGE: The book reviews the most important problems in investment casting.
Among the topics considered are the following: mechanical properties of castings;

Card 1/49

1

Investment Casting

S07/5976

the manufacture of castings; precision surface quality; materials and methods of making patterns and molds; the melting of metals and alloys; pouring, cleaning, heat treatment, and inspection of castings; economic aspects in the production of castings; organization of production; and modern concepts relating to processes taking place in the manufacture of investment castings. No personalities are mentioned. There are 180 references, mostly Soviet.

TABLE OF CONTENTS:

Introduction	5
Ch. I. Designing Cast Parts	12
Properties of castings	13
Dimensional precision	13
Surface quality	16
Mechanical properties of cast metal	19
Design elements of castings	21

Card 2/2

LYASHCHENKO, N. YA.

USSR/mathematics

Card 1/1

Author : Lyashchenko, N. Ya.

Title : About the asymptotic stability of solutions of a system of differential equations.

Periodical : Dokl. AN SSSR., 96, Ed. 2, 237 - 239, May 1954

Abstract : Theorems are presented according to which the solution of a system of differential equations with a "sufficiently slow change in coefficients" will be stable provided the roots of the characteristic equation have essentially negative material parts. One of the theorems is more general and makes it possible to treat the case where, together with sufficiently slowly changing members in the n-dimensional matrix, we also have "high frequency members. Sequence of the actual work is given. One USSR reference, 1946.

Institution :

Submitted : Presented by Academician N. N. Bogolyubov, March 3, 1954, February 22, 1954.

LYASHCHENKO, N. Ya.

USSR/Mathematics

Card 1/1 : Pub. 22 - 5/44

Authors : Lyashchenko, N. Ya.

Title : About a theorem on division of a system of linear differential equations

Periodical : Dok. AN SSSR 97/6, 965-967, Aug 21, 1954

Abstract : Proof of theorem on the division of a matrix of a system of linear differential equations into two parts is presented. Two references (1951 and 1954).

Institution : ...

Presented by : Academician N. N. Bogolyubov, May 29, 1954

LYASHCHENKO, M.Ya.

Theorem for the division of a linear system of differential equations
with almost periodic coefficients. Ukr.mat.zhur. 7 no.1:47-55 '55.
(Differential equations, Linear) (MLRA 8:7)

LYASHCHENKO, N.Ya.

SUBJECT USSR/MATHEMATICS/Differential equations CARD 1/4 PG - 101
 AUTHOR LJASCENKO N.Ja.
 TITLE On a theorem on the complete decomposition of a linear homogeneous system of ordinary differential equations and some properties of the matrix of decomposition.
 PERIODICAL Ukrain mat. Žurn. 7, 403-418 (1955)
 reviewed 6/1956

In two earlier papers the author has established the theorem concerning the reduction of the system of linear homogeneous differential equations of n -th order in two independent systems of lower order. In the present paper the author establishes four theorems and two lemmas regarding the total reduction of a certain system of equations in n independent differential equations of first order which can be integrated by quadratures. It is assumed that the coefficients change slowly and that the characteristic roots of the matrix satisfy also certain conditions. The reduction can be executed by the reductive matrix $B(t)$, the coefficients of which on the main diagonal are equal to one. This matrix has some properties - the almost periodicity (in the H.Bohr sense) and analyticity.

1) Let be given the system of equations

$$(1) \quad \dot{x} = P(t)x + L(t)x,$$

where $x = (x_1, \dots, x_n)$ is the vector, $P(t)$ the diagonal matrix the elements of which satisfy the conditions

Ukrain. mat. Zhurn. 7, 403-418 (1955)

CARD 2/4 PG - 101

$$(2) \quad \operatorname{Re} p_1(t) \leq \gamma_1 < \gamma_2 \leq \operatorname{Re} p_2(t) \leq \dots \leq \operatorname{Re} p_{n-1}(t) \leq \gamma_{2n-3} < \gamma_{2n-2} \leq \operatorname{Re} p_n(t),$$

$\gamma_i = \text{const.}$; $L(t)$ is the matrix the elements $L_{ik}(t)$ of which are the continuous and bounded functions determined on the whole real axes of t and $|L_{ik}(t)| \leq L$. Then there exists the theorem of the total reduction: If for all real t the condition $|L_{ik}(t)| \leq L \leq 2\gamma/9n$, $i, k=1, 2, \dots, n$ is satisfied, then there exists the continuous and bounded matrix $B(t)$ with $B_{ii}(t) = 1$ such that the transformation $x = B(t)\eta$, $\eta = (\eta_1, \dots, \eta_n)$ reduces the system (1) into n independent equations of first order

$$(3) \quad \dot{\eta}_i = p_i(t) \eta_i + \sum_{k=1}^n L_{ik}(t) B_{ik}(t) \eta_k, \quad i=1, \dots, n$$

which can be solved by quadratures. Supposing $x_i(t) = B_{ik}(t) \eta_k(t)$, then the $B_{ik}(t)$ can be determined by means of the system of $n(n-1)$ differential equations of first order

$$\dot{B}_{ik} = p_i B_{ik} - B_{ik} p_k - B_{ik} L_{kk} - B_{ik} \sum_{j \neq k} L_{kj} B_{jk} + \sum_{j \neq i} L_{ij} B_{jk} + L_{ik} \quad \text{for } j \neq k.$$

The proof reduces further to the system of integral equations which can be solved by means of the successive approximations supposing $B_{ik}(t) = 0$. If $\ln \gamma \leq Q(1+Q)^{-2}$, $Q \geq \text{const} > 0$, then there exists the valuation $|B_{ik}^{(m)}(t)| < Q$,

Ukrain. mat. Zhurn. 7, 403-418 (1955)

CARD 3/4

PG - 101

$m = 1, 2, \dots$, for all t . In this way the problem is transformed to the examination of the convergence of the series

$$\sum_{m=1}^{\infty} [B_{ik}^{(m)}(t) - B_{ik}^{(m-1)}(t)], \quad i \neq k$$

which can be majorized with the infinite geometric series $\sum 2^{m-1} Q^m$, convergent if $Q < 1/2$. 2) If the conditions of the first theorem are satisfied and the coefficients of (1) are the almost periodic functions (in the sense of H. Bohr), then the $B_{ik}(t)$ are also almost periodic functions (in the same sense). The two auxiliary lemmas are previously demonstrated. a) Let be given two systems

$x = p(t)x$, $y = p(t+T)y$, where T is the number, $\operatorname{Re} p(t) < -\gamma = \text{const.}$, $-\infty < t < +\infty$. If for every real t there exists the relation $|p(t+T) - p(t)| < \delta$, then the valuation

$$|y(t) - x(t)| \leq (2\delta/\gamma) |x_0| \exp[-1/2(t-t_0)], \quad -\infty < t_0 < t < +\infty$$

is valid. The result represents the analogue to the Floquet's theory regarding the equations with periodic coefficients. b) In the case of $\dot{y} = A(t)y$, $y = (y_1, \dots, y_n)$

with $|pA - A(t)| = 0$, it is shown that there exists such non-singular matrix $V(t)$ with bounded derivative $\dot{V}(t)$ for all t that $y = V(t)x$ transforms the above system to the form (1). In this case $P(t)$ is the diagonal matrix of the eigenvalues of $A(t)$; $L(t) = V^{-1} \cdot \dot{V}$ is bounded for all t . The proof of this trans-

Ukrain. mat. Zhurn. 7, 403-418 (1955)

CARD 4/4

PG - 101

formation is given by Levinson (Duke Math. J. 15, No. 1 (1948)). 3) Let $x = Ax + \varepsilon L(t)x$, $a_{ik} = \text{const.}$, ε is a small complex parameter with $\varepsilon_0 = 2\gamma/9nL$.

For all real t and $|\varepsilon| < \varepsilon_0$, there exists such matrix $B(t, \varepsilon)$, bounded, continuous in t and analytic with regard to ε , in the circle of the convergence with $|\varepsilon| < \varepsilon_0$, that $x = B(t, \varepsilon)\eta$, $\eta = (\eta_1, \dots, \eta_n)$ transforms the above system in n independent differential equations of first order

$$(4) \quad \dot{\eta}_i = \left[p_i + \varepsilon \sum_k L_{ik}(t) B_{ik}(t, \varepsilon) \right] \eta_i, \quad i=1, \dots, n$$

which can be solved by quadratures. The proof is also based on the integral equations. 4) The first theorem has a very large use in the theory of differential equations with slowly changing coefficients. Let $\dot{y} = A(\tau)y$, $\tau = \varepsilon t$, where ε is a small real parameter. It is shown that in this case there exists the matrix $B(t, \varepsilon)$ such that $x(t) = B(t, \varepsilon)\eta(t)$ transforms the above system into the system of the equations of first order, the same form as in the case 3) only with $p_i(\tau)$ and $L_{ik}(\tau)$.

LYASHCHENKO, N.Ya.

CARD 1/2 PG - 132

SUBJECT
AUTHOR
TITLE

USSR/MATHEMATICS/Differential equations

LJASCENKO N.Ja.

On the question of the asymptotic stability of the solutions of non-linear systems of differential equations.

PERIODICAL

Doklady Akad. Nauk 104, 177-179 (1955)
reviewed 7/1956

The author considers the system

$$(1) \quad \frac{dx}{dt} = A(t)x + \varphi(t) + f(t, x),$$

where x , $\varphi(t)$, $f(t, x)$ are n -dimensional vectors and $A(t)$ is an $n \times n$ -rowed matrix which all are defined on the total real t -axis. $\varphi(t)$ is a bounded continuous function, $|\varphi(t)| \leq B$; $f(t, x)$ is continuous in t and x and $f(t, 0) = 0$, $|f(t, x) - f(t, y)| \leq L|x - y|$; $A(t)$ satisfies the condition $|A(t)| < M$ $|A(t') - A(t'')| \leq \delta |t' - t''|$ with a special value of δ .

According to a method due to Farnell, Langenhop and Levinson (J. of Math. and Phys. 29, No.4, 300, (1954)) the author proves the theorem: 1) If the roots $p_i(t)$ ($i=1, 2, \dots, n$) of the characteristic equation $\text{Det } \|pE - A(t)\| = 0$ satisfy the condition $\text{Re } p_i(t) \leq -\gamma$ $-\infty < t < +\infty$, where γ is a certain positive number, and $L < \frac{\gamma(1-\epsilon)}{4k}$ with an arbitrary small positive constant ϵ

(the constant k is derived from the inequation $|x(t)| \leq k e^{-\frac{\gamma}{4}t} |x(0)|$, $t \geq 0$,

CARD 2/2

PG - 132

Doklady Akad. Nauk 104, 177-179 (1955)

which satisfies the solutions of $\frac{dx}{dt} = A(t)x$ (Doklady Akad. Nauk 96, 237 (1954)), then the system (1) has a single solution which for $t \rightarrow \infty$ is asymptotically stable in the sense of Liapunov. If besides $A(t)$, $\psi(t)$, $f(t, x)$ are continuous almost periodic functions of t , where $f(t, x)$ in t is uniformly almost periodic relative to x with a basis of frequency not depending on x , then the following theorem is valid: 2) If the conditions of theorem (1) are satisfied, then the system (1) has a single almost periodic solution which is asymptotically stable for $t \rightarrow \infty$.

The comprehension of this paper is very difficult by misprints.

SOV/124-57-4-3896

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 8 (USSR)

AUTHOR: Lyashchenko, N. Ya.

TITLE: Some Aspects of the Stability of Solutions of Systems of Ordinary Differential Equations (Nekotoryye voprosy ustoychivosti resheniy sistem obyknovennykh differentsial'nykh uravneniy)

PERIODICAL: Tr. 3-go Vses. matem. s"yezda. Vol I. Moscow, AN SSSR, 1956, pp 223-224

ABSTRACT: Bibliographic entry

Card 1/1

LYASHCHENKO, N. Ya.

SUBJECT

USSR/MATHEMATICS/Differential equations

CARD 1/2 PG - 796

AUTHOR

LJASCENKO N. Ja.

TITLE

An analogue to the theorem of Floquet for the special case of linear homogeneous systems of differential equations with quasi-periodic coefficients.

PERIODICAL

Doklady Akad. Nauk 111, 295-298 (1956)
reviewed 5/1957

Let be given the system of differential equations

$$(1) \quad \frac{dx}{dt} = P(t)x + L(t)x,$$

where x is an n -dimensional vector, $P(t)$ is a diagonal- and $L(t)$ a quadratic n -dimensional matrix with continuous quasi-periodic functions as elements. Here let for all t :

$$\operatorname{Re} p_1(t) \leq \gamma_1 < \gamma_2 \leq \operatorname{Re} p_2(t) \leq \gamma_3 < \gamma_4 \leq \dots \leq \operatorname{Re} p_{n-1}(t) \leq \gamma_{2n-3} < \gamma_{2n-2} \leq \operatorname{Re} p_n(t),$$

($p_i(t)$ - elements of $P(t)$). Let the elements of $L(t)$ be sufficiently small in a certain sense.

Recently the author has proved (Ukrain. mat. Zhurn. 7, 4, 403 (1955)) that if the elements $l_{ij}(t)$ of L are sufficiently small, then there exists a matrix $B(t)$

(all elements of its principal diagonal are 1) such that by the transformation $x(t) = B(t) \eta(t)$ the system (1) decomposes into n independent equations of

Doklady Akad.Nauk 111, 295-298 (1956)

CARD 2/2

PG - 796

• first order:

$$(2) \quad \frac{d\eta_1}{dt} = \left[p_1(t) + \sum_{j=1}^n l_{1j}(t) b_{1j}(t) \right] \eta_1 \quad (i=1,2,\dots,n)$$

which are solvable in quadratures. From this theorem there follows that the solutions of (1) can be represented in the form

$$(3) \quad x_j(t) = \sum_{i=1}^n e^{\alpha_i t} f_{ij}(t), \quad \alpha_i = \text{const}, \quad f_{ij} - \text{quasi-periodic},$$

if the undetermined integral of the quasi-periodic functions

$$(4) \quad \Lambda_1(t) = p_1(t) + \sum_{j=1}^n l_{1j}(t) b_{1j}(t) \quad (i=1,2,\dots,n)$$

can be represented in the form

$$(5) \quad \int_0^t \Lambda_1(t) dt = \alpha_1 t + \beta_1(t), \quad \alpha_1 = \text{const}, \quad \beta_1 \text{ quasi-periodic}.$$

Here $f_{ij}(t) = b_{ij}(t) e^{\beta_j(t)}$

For the representability in the form (5) by use of Liouville's inequation with s frequencies (Kolmogorov, Doklady Akad.Nauk 98, 527 (1954)) sufficient conditions are given.

~~ИЗДАНИЕ~~

FEYNBERG, S. M., VOROBYEV, E. D., GRYASEV, V. M., KLIMENTOV, V. B., LYASH
CHENKO, N. Ya., TSAKANOV, V. A.

"Uranium-Water Intermediate Reactor Used for Obtaining High-Intensity
Neutron Fluxes."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic
Energy, Geneva, 1 - 13 Sept 58.

Lyas Hc H2 N K0, N.YA.

21(4) PHASE I BOOK EXPLOSION SOV/2583

International Conference on the Peaceful Uses of Atomic Energy, 2nd, Geneva, 1958.

Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya energiya. (Reports of Soviet Scientists; Nuclear Reactors and Nuclear Energy). Moscow, Atomizdat, 1959. 707 p. (Series: Its: Nauka, vol. 2) Kzeta also inserted. 8,000 copies printed.

General Eds.: M.A. Dolbeshko, Corresponding Member, USSR Academy of Sciences, A.K. Kuznetsov, Doctor of Physical and Mathematical Sciences, A.I. Leipunskiy, Member, Ukrainian SSR Academy of Sciences, I.I. Koriakov, Corresponding Member, USSR Academy of Sciences, and V.S. Kuznetsov, Doctor of Physical and Mathematical Sciences; Ed.: A.P. Alyab'yev; Tech. Ed.: Ye. I. Mazel.

PURPOSE: This book is intended for scientists and engineers engaged in reactor designing, as well as for professors and students of higher technical schools where reactor design is taught.

CONTENTS: This is the second volume of a six-volume collection on the peaceful uses of atomic energy. The first volume contains the reports presented by Soviet scientists at the International Conference on Peaceful Uses of Atomic Energy, held from September 1 to 13, 1958 in Geneva. Volume 2 consists of three parts. The first is devoted to atomic power plants under construction in the Soviet Union; the second to experimental and research reactors, the experiments carried out on them, and the work to improve them; and the third, which is predominantly theoretical, to problems of nuclear reactor physics and construction engineering. Yu. I. Koriakov is the science editor of this volume. See SOV/2001 for titles of all volumes of the set. References appear at the end of the articles.

PART II. EXPERIMENTAL AND RESEARCH REACTORS

Leipunskiy, A.I., V.S. Kuznetsov, M.M. Aristachov, I.I. Bondarenko, O.D. Kuznetsov, V.I. Kuznetsov, S.A. Fashov, N.P. Fashov, and M.A. Stumpe. Experimental Fast Reactors in the USSR (Report No. 2185) 215

Kuznetsov, V.I., V.A. Dmitriyevskiy, I.S. Grigoriev, Yu.Yu. Olshakov, V.Y. Kuznetsov, and B.D. Dubovskiy. Pilot-plant Reactor With a Fast Neutron Spectrum (Report No. 2186) 232

Goncharov, V.V. and et al. Some New and Rebuilt Thermal Research Reactors (Report No. 2187) 243

Brodovich, B.V., P. Ya. Omerovskiy, V.I. Kuznetsov, P.V. Olshakov, and M.A. Stumpe. Dismantling an Experimental Graphite-Uranium Isotope Producing Reactor After Four Years of Operation (Report No. 2188) 319

Punberg, S.M., Ye. D. Vozhikov, V.M. Orlov, V.B. Kuznetsov, and V.A. Dmitriyevskiy. An Experimental Fast Neutron Reactor for Obtaining High Intensity Neutron Fluxes (Report No. 2189) 334

PART III. PHYSICS AND ENGINEERING OF REACTOR DESIGN

Leipunskiy, A.I., A.I. Abramov, V.M. Andreyev, A.L. Baryshnikov, V.I. Kuznetsov, V.I. Galkov, V.I. Golubev, A.D. Galkov, A.D. Galkov, O.D. Kuznetsov, N.V. Kuznetsov, M.V. Kuznetsov, B.D. Kuznetsov, V.N. Kuznetsov, M.M. Nikolayev, G.M. Shtrenkin, Yu. I. Koriakov, P.I. Udalov, L.N. Usachev, M.I. Petisov, and V.A. Dmitriyevskiy. Research on the Physics of Fast Neutron Reactors (Report No. 2190) 377

Kuznetsov, V.M. and B.L. Ioffe. Homogeneous Natural Uranium Reactor (Report No. 2191) 398

Punberg, S.M., Ye. D. Vozhikov, V.P. Kuznetsov, V.S. Komashov, I.K. Laeva, Yu. V. Nikol'skiy, A.N. Novikov, V.S. Omerovskiy, O.D. Kuznetsov, and Ye. V. Shevelov. Fuel Burn Up in Water-Water Reactors and Experiments With the Uranium Water Lattice (Report No. 2192) 411

Kuznetsov, V.A. Self-regulation in a Water-water Power Reactor (Report No. 2193) 534

5/056/62/045/002/002/000
B104/2108

24.6300

AUTHORS: Strutinskiy, V. M., Lyashchenko, N. Ya., Popov, N. A.
TITLE: Symmetrical shapes of equilibrium in the nuclear model with a sharp surface (drop model)
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 2(8), 1962, 584-594

TEXT: The symmetrical equilibrium shapes of a nucleus are investigated by solving Euler's variational equation

$$y \frac{d^2 y}{dz^2} - 1 - \left(\frac{dy}{dz} \right)^2 + y \left[\lambda_1 + \lambda_2 |z| + \frac{5}{2} x \Phi_1(z, y) \right] \left[1 + \left(\frac{dy}{dz} \right)^2 \right]^{-1/2} = 0, \quad (2)$$

by means of an iteration method. $y = y(z)$ describes the surface of the nucleus which is symmetric about the z axis.

$$x = (Z^2 / A) / (Z^2 / A)_{crit} = \frac{3}{10} (Z^2 c^2 / 4 \pi O R^2);$$

is the usual parameter of the "liquid drop model of nucleus", O is the

Card 1/2

Symmetrical shapes of equilibrium in...

S/056/62/043/032/053
B104/3108

surface energy density, R is the radius of a sphere of a volume equal to the volume of the nucleus, and ϕ_s is the Coulomb potential on the nuclear surface. The conditional and unconditional equilibria for the usual sequence of nuclear figures, as well as for figures with two and three necks are studied. The development of "quasi molecules" is investigated. There are 6 figures. /16

SUBMITTED: March 2, 1962

Card 2/2

KOCHENOV, A.S.; LYASHCHENKO, N.Ya.

Comparison of calculated and experimental parameters of homogeneous
uranium-water critical assemblies. Atom. energ. 19 no.5:463-
464 N '65. (MIRA 18:12)

L 23728-66 EWT(m)/ETC(f)/EPF(n)-2/ENG(m) WW

ACC NR: AP6014806

SOURCE CODE: UR/0083/65/019/005/0463/0464

AUTHOR: Kochenov, A. S.; Iyashchenko, N. Ya.

ORG: none

TITLE: Comparison of the theoretical and experimental parameters for homogeneous uranium-water critical assembly 19

SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 463-464

TOPIC TAGS: uranium, polyethylene, neutron, transport equation, thermal neutron, neutron diffusion, nuclear reactor moderator, reactor fuel element

ABSTRACT: The P_1 approximation of the neutron transport equation and the single-velocity thermal-neutron diffusion equation were used for the calculations; the energy range was divided into 12 groups, including the thermal range for the slowing-down equation. The critical assembly used for the experimental determinations consisted of 70 x 35 x 250 mm holders, with 250 x 70 x 2.7 mm fuel sheets pressed from polyethylene and U_3O_8 with a ^{235}U content of 90%. Foils of Al, Cu, and stainless steel were used as covering. It was found that the assembly was quasi-homogeneous when the hydrogen and ^{235}U concentration ratio was $\rho H/\rho^{235}U \approx 50$. For a value of this ratio of about 50, the water gap between the foils amounted to about 5 mm, or equal to the mean free path of the thermal neutrons in water; therefore at >50 , the effect of the heterogeneity must be taken into account, and the method may be used only in the first case. For

Card 1/2

UDC: 621.039.520.22

L 23728-66

ACC NR: AP6014806

the calculation it was assumed that the assembly was spherical, with a 50-mm thick water reflector. Comparison of the results revealed agreement between theory and experiment. Thus, this method of calculation may be used for determining the critical dimensions of homogeneous, epithermal reactors using a hydrogenous moderator. Ye. D. Vorob'yev, V. B. Klimontov, V. M. Gryazev, and others carried out the experimental work. Orig. art. has: 1 figure. /NA/

SUB CODE: 18, 20 / SUBM DATE: 15Jan65 / ORIG REF: 002

Card 2/2 / 10

LYACHCHENKO, P.S.

"The Decisive Role Of The External Environemnt And The Functional Surroundings Of Organisms In The Ontogenesis Of White Blood Corpuscles In The Horse" (p.198) by V.N. Nikitin, E.A. Batozskaya, P.S. Lyachchenko, M.I. Novikov, I.L. Poltavski, G.F. Bryazkun, and P.G. Prikhod'ko.

SO: Journal of General Biology (Zhurnal Obshchei Biologii) Vol. XI, 1950, No. 3

LYASHCHENKO, S.V., kandidat arkhitektury.

New apartment house on the Dorogomilovskaya Embankment. Gor.khoz.Mosk. 21
no.6:16-20 Je '47. (MIRA 6:11)
(Moscow--Apartment houses) (Apartment houses--Moscow)

LYASHCHENKO, S. V.

137-1958-3-5044

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 84 (USSR)

AUTHOR: Lyashchenko, S. V.

TITLE: How to Increase the Utilization of Metal in Hot Forging
(Povysheniye koeffitsiyenta ispol'zovaniya metalla pri goryachey
shtampovke)

PERIODICAL: V sb. : Materialy konferentsii po usoversh. tekhnol. goryachey
shtampovki. Minsk, AN BSSR, 1957, pp 65-85

ABSTRACT: The following measures were planned in order to reduce the
consumption of metal by as much as 32 kg for every tractor:
a) smaller allowances and reduced overlapping on forgings (F);
b) adaptation of precision forging methods and elimination of
projections on die-forged parts; c) conversion to the manufacture
of forged parts in horizontal forging machines and presses instead
of by drop-hammer forging; d) employment of lighter forgings
and better utilization of metal. Numerous examples of rational
modifications in the design of forgings are shown together with
examples of employment of deep bastings in die-forging, substi-
tution of milling operations by stamping, and combining the pro-
jection-trimming operations with broaching of holes by means of
compound dies.

G. F.

Card 1/1

SMIRNOV, Leonid Stepanovich [Smyrnov, L.S.]; KERSEK, Vladimir Nikolayevich
[Kersek, V.M.]; LYASHCHENKO, T.V., red.; SHVARTSSHTEYN, K.A.,
tekhn. red.

[New goods from synthetic fibers] Novi vyroby z khimichnykh
volokon. Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1961. 17 p.
(MIRA 15:3)

(Textile fibers, Synthetic)

LYASHCHENKO, T.V.; YAVOROVSKIY, O.K. [IAvorovs'kyi, O.K.]

Experience in the mechanization of production processes. Leh.prom.
no.4:53-54 O-D '62. (MIRA 16:5)

1. Khar'kovskaya shveytnaya fabrika No.4.
(Kharkov--Clothing industry)

SMIRNOV, Leonid Stepanovich; GONTARENKO, Aleksandr Nikolayevich;
GORDIYENKO, Mariya Georgiyevna; KRYLOV, Aleksandr Iosifovich;
NOVAK, Nikolay Stepanovich; LYASHCHENKO, T.V., red.; STARODUB,
T.A., tekhn. red.

[Manufacture of artificial fur] Proizvodstvo iskusstvennogo
mekha. Kiev, Gos. izd-vo tekhn. lit-ry USSR, 1961. 138 p.
(MIRA 15:4)

(Artificial fur)

BELANOVSKIY, Nikolay Grigor'yevich[Bislanovs'kyi, M.H.]; SHOR,
Roman Moiseyevich; LYASHCHENKO, T.V., red.; STARODUB,
T.O., tekhn. red.

[Modernization of the equipment of the leather industry]
Modernizatsiia ustatkuvannia shkirianoi promyslovosti.
Kyiv, Derzhtekhydav URSR, 1961. 102 p. (MIRA 16:9)
(Leather industry--Equipment and supplies)

95671
S/057/62/032/009/011/014
B117/B186

AUTHORS: Yatsuk, K. P., Shestopalov, V. P., and Lyashchenko, V. A.

TITLE: Limits of applicability of the method of a helical waveguide for the measurement of dielectric constants in matter

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 9, 1962, 1102 - 1103

TEXT: It was shown from several measurements on specimens having known dielectric constants that the results of measuring ϵ of a VHF material under investigation depend on the geometry of the helix and specimen as well as on the frequency range used. In order to elucidate this influence and the limits of applicability for the formulas previously derived (V. P. Shestopalov, K. P. Yatsuk. ZhTF, XXIX, 7, 819, 1959; ZhTF, XXIX, 9, 1090, 1959), dispersion properties of the systems helix-dielectric and helix-laminated dielectric (liquid in a tube) were investigated by comparison of calculated and experimental dispersion curves. Conclusions: The calculated and experimental curves, observed in a certain frequency range, are in agreement if the ratio between the diameter of the specimen, $2a$, and the length λ_g of the retarded wave is greater than unity. This confirms that

Card 1/3

Limits of applicability of the...

S/057/62/032/009/011/014
B117/B186

the above-mentioned formulas are valid for the respective range. The method of the helical waveguide can be used to measure the dielectric constant of solid dielectrics (rods or tubes with no clearance between them and the helix) up to wave lengths for which $2a/\lambda_g > 1$. The short-wave limit of applicability of this method lies in a range wherein the wavelength and the pitch of the helix become commensurate. In certain ranges, the experimental and calculated dispersion curves could be made to agree for the system helix-laminated dielectric also. The width of these ranges depends on the interrelation between the dielectric constants of individual layers: $0.7 \leq 2a/\lambda_g \leq 1.5$ was obtained for $\epsilon_{\text{tube}} > \epsilon_{\text{liq}}$, and $0.9 \leq 2a/\lambda_g \leq 1.1$ for $\epsilon_{\text{tube}} < \epsilon_{\text{liq}}$. To extend the frequency limits when measuring the dielectric constant of liquids with large values of ϵ , it is necessary to choose tube material with still greater values of ϵ .

ASSOCIATION: Khar'kovskiy gosuniversitet imeni A. M. Gor'kogo (Khar'kov State University imeni A. M. Gor'kiy)

Card 2/3

Limits of applicability of the...

S/057/62/032/009/011/014
B117/B186

SUBMITTED: June 17, 1961 (initially)
January 11, 1962 (after revision)

Card 3/3

L 8597-65 EWT(1)/EEC-1/EMA(h) RAEM(a)/RAEM(t)
 ACCESSION NR: AR4044069

5/0058/63/000/011/H036/H036

SOURCE: Ref. zh. Fizika, Abs. 11Zh282

AUTHOR: Yatsuk, K. P.; Shestopalov, V. P.; Lyashchenko, V. A.

TITLE: The limits of applicability of the helical waveguide method for measuring the permittivities of a substance

CITED SOURCE: Uch. zap. Khar'kovsk. un-t, v. 132, 1962, Tr. Radiofiz. fak., v. 7, 168-172

TOPIC TAGS: helical waveguide, permittivity, liquid dielectric, wavelength

TRANSLATION: It is shown that the accuracy in determining the permittivity ϵ by the helical waveguide method depends essentially on the geometry of the spiral and the sample. On the basis of conducted experimental studies it is established that when $D/\lambda_g \ll 1$ (D is the diameter of the solid sample, λ_g is the length of the attenuated wave) the value of ϵ differs sharply from its true value. There are given the limits of D/λ_g for which ϵ is determined with the required accuracy. The fact

Card 1/2

L 8597-65

ACCESS/ON NR: AR4044069

that these assertions are correct is strengthened by experimental data. For the case of liquid dielectrics in a tube, the working range of the wavelengths in which ϵ can be determined increases with increasing ϵ of the tube; when ϵ of the tube is greater than that of the dielectric, the value $0.740/\lambda \leq 1.5$, with an error of the order of 10-15% in determination of ϵ . Gives the results of an experimental determination of ϵ for liquids in this range.

SUB CODE: ED, EM

ENCL: 00

Card 2/2

LYASHCHENKO, V.A.; KOVTUN, N.M.

Small resonant ferrite valve in a π - waveguide. Radiotekhn. i elektron.
9 no.9:1712-1714 S '64. (MIRA 17:10)

1. Khar'kovskiy gosudarstvennyy universitet im. Gor'kogo.

I. 34399-66 EWT(1)/T NR

ACC NR: AT6022333

SOURCE CODE: UR/0000/66/000/000/0033/0039

AUTHOR: Shubarin, Yu. V.; Lyashchenko, V. A.; Sadymak, P.

ORG: none

TITLE: Investigation of a slotted waveguide antenna of the inverted L type with a controlled radiation pattern

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya antennoykh ustroystv. Doklady. Moscow, 1966, 33-39.

TOPIC TAGS: slot antenna, waveguide antenna, antenna radiation pattern

ABSTRACT: An investigation is made of a slotted waveguide antenna of the inverted L type with a controlled radiation pattern in which switching of the major lobe is accomplished by varying the electric distance between the slots by means of a longitudinally magnetized ferrite probe. A waveguide with dimensions shown in Fig. 1 and critical wavelength $\lambda_{cr} = 7.35$ cm is considered. In the theoretical part of the study, expressions for the radiated power of an obliquely shifted slot, for amplitudes of waves excited by the slot and for the radiation intensity of the slot are used to obtain formulas for computing both the emission and the reflection coefficients of the slot

Card 1/3

L 34399-66

ACC NR: AT6022333

as functions of slot inclination φ and shifting y at $\lambda_0 = 3.2$ cm. It is found that with an increasing inclination angle from 0 to 90° the emission coefficient grows and reaches 0.36 at $\varphi = 90^\circ$. At the same time, the reflection coefficient grows only negligibly.

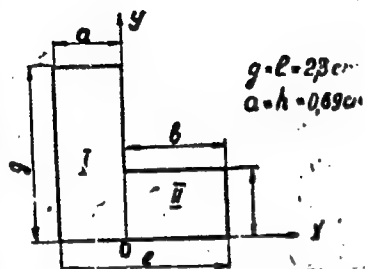


Fig. 1. Slotted waveguide antenna

These results are found to be in good agreement with the experiment. Since a slotted waveguide antenna with an electrically controlled radiation pattern requires changes in the phase distribution in its aperture, a ferrite phase shifter of the Regge-Spencer type was used in the experiments. The antenna considered was of the six-slot type. Resonance slots, 1.6 cm long, were cut in one of the walls of the waveguide at an angle of 45° to its longitudinal axis. The spacing between the slots was equal to wavelength $\lambda_g = 1.75$ cm in the waveguide containing ferrite. Measurements were conducted at $\lambda_0 = 3.2$ cm. To determine the effect of the ferrite both on the radiated power and the shape of the radiation pattern, the slotted waveguide antenna was studied without a ferrite and with a nonmagnetized ferrite. It was established that the presence of the ferrite had little effect on the

Card 2/3

I 34399-66

ACC NR: AT6022333

0

shape of the radiation pattern and the radiated power, but it did lead to a considerable shift of the major lobe from its initial position. Magnetization of the ferrite by a longitudinal field shortens the electric distance between the slots. Orig. art. has: 3 formulas and 5 figures. [JR]

SUB CODE: 09/ SUBM DATE: 22Mar66/ ORIG REF: 001/ OTH REF: 001
ATD PRESS: 5034.

Card 3/3 BLG

LYASHCHENKO, V.N. Cand Tech Sci -- (diss) "On the problem of selecting the ~~design~~
design for ^{main bracing} ~~root fastening~~ of switchh ramps." Khar'kov, 1956. 15 pp 21 cm.
Railways
(Min of ~~Communications~~ USSR. Khar'kov Inst of Engineers of Railroad Transport in
S. M. Kirov), 100 copies
(KL, 7-57, 106)

35

LYASHCHENKO, V.N., inzhener.

Problem of selecting a design for base fastenings of switch
points. Vest. TSNII MPS 15 no.4:37-40 D '56. (MLRA 10:2)

(Railroads--Switches)

LYASHCHENKO, V.N., kand. tekhn. nauk, dotsent

Calculations by the switch rail. Trudy KHIIT no.57:24-50
'62. (MIRA 16:11)

LYASHCHENKO, V.N., kand. tekhn. nauk(Khar'kov)

Some experiments in the laying and maintenance of continuous rail
tracks. Put' i put. khoz. 9 no.2:26-27 '65. (MIRA 18:7)

LIPSKIY, Yu.N.; BONDARENKO, L.N.; LEPIKHIN, R.S.; LYASHCHENKO, V.P.;
POSPERGELIS, M.M.; SUGROBOV, N.K.

New means of astronomic observations; study of celestial bodies
by means of television. Priroda 52 no.7:96-99 J1 '63.
(MIRA 16:8)

1. Astronomicheskiy institut im. P.K.Shternberga, Moskva.
(Television in astronomy)

LYASHCHENKO, V.P.

Simple method for drip transfusions. Vrach.delo no.2:191 P '57.
(MLRA 10:6)

1. Khirurgicheskoye otdeleniye (zav. - zasl. vrach USSR
V.P.Lyashchenko) bol'nitsy Lenakiyevskogo metallurgicheskogo zavoda.
(BLOOD--TRANSFUSION)

LYASHCHENKO, V.P.

Two cases of wounds of the heart. Nov.khir.arkh. no.3:113-114
My-Je '59. (MIRA 12:10)

1. Khirurgicheskoye otdeleniye bol'nitsy Yenakiyevskogo metallurgi-
cheskogo zavoda.

(HEART--WOUNDS AND INJURIES)

IVADYONTO, Ye.

Bee Culture

Forming branch colonies with winter bees in horizontal hives. *Peredovozhnik* 47 no. 7, 1952

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

LYASHCHEVSKIY, Vasilii Petrovich;

LYASHCHEVSKIY, Vasilii Petrovich; MEGRABOV, G.A., redaktor; SEMENOVA, M.M.,
redaktor; VOLKOVA, Ye., tekhnicheskii redaktor

[New methods of manufacturing and renovating bearings] Nove sposoby
izgotovleniia i restavratsii podshipnikov. Moskva, Izd-vo "Morskoi
transport," 1955. 85 p. (MLRA 9:1)

(Bearings (Machinery))

Lyashchinskiy, B.I.

133-12-9/26

AUTHORS: Popov, V.S., Candidate of Technical Sciences, and
Lyashchinskiy, B.I., Engineer.

TITLE: Crushing of Ferro-manganese by Means of an Electric Current
(Drobleniye ferromargantsa elektricheskim tokom)

PERIODICAL: Stal', 1957, No.12, pp. 1097 - 1098 (USSR)

ABSTRACT: A method for primary crushing of ferromanganese produced in electric furnaces is proposed. It consists of simultaneously applying an electric current (AC or DC, high or low frequency) and weak mechanical forces (Fig.2) to ferromanganese lumps. The nature of the phenomenon of cracking of ferromanganese lumps on the passage of current is not quite clear, but it is thought to be related to localised heating of a small volume of the processed material to high temperatures. There are 2 figures and 2 Slavic references.

ASSOCIATION: Zaporozh'ye Machine-building Institute
(Zaporozhskiy mashinostroitel'nyy institut)

AVAILABLE: Library of Congress
Card 1/1

LYASHCHINSKIY, B.I.; PONOMARENKO, Ye.P.; GESELEV, A.M.; SERDYUK, V.Ye.

Improved magnetic starters. Energ. i elektrotekh. prom.
no.3:68-69 J1-S '62. (MIRA 18-11)

1. Zaporozhskiy mashinostroitel'nyy institut imeni Chubarya (for
Lyashchinskiy, Ponomarenko). 2. Zaporozhskiy sovet narodnogo
khozyaystva (for Geselev). 3. Dneprovskiy mekhanicheskiy zavod
(for Serdyuk).

LYASHCHINSKIY, B.I.

Investigating the passivation of ferromanganese by hardening.
Trudy Zapor. mashinostroi. inst. 4:139-141 '59. (MIRA 17:1)

POPOV, V.S.; LYASHCHINSKIY, B.I.

Using an electric current for the crushing of electrometallurgically
manufactured ferromanganese. Trudy Zapor. mashinostroi. inst. 4:
143-153 '59. (MIRA 17:1)

POPOV, V.S., kand.tekhn.nauk; PONOMARENKO, Ye.P., inzh.; LYASHCHINSKIY,
B.I., inzh.; NEMZER, V.I., inzh.; VOKSHIN, I.I., inzh.

Replacing bronze by bimetal inserts in rolling mill spindles. Stal'
22 no.3:255-256 Mr '62. (MIRA 15:3)

1. Zaporozhskiy mashinostroitel'nyy institut i zavod "Dneprospetsstal".
(Rolling mills--Equipment and supplies)

IYASHCHINSKIY, B.I.; PONOMARENKO, Ye.P.

Investigating the process of crushing electrothermic ferroalloys
by an electric current. Izv. vys. ucheb. zav.; chern. met. 8
no.9:86-91 '65. (MIRA 18:9)

1. Zaporozhskiy mashinostroitel'nyy institut.

PONOMARENKO, Ye.P.; LYASHCHINSKIY, B.I.; NEMZER, V.I.; VOKSHIN, I.I.

Bimetal bearings for rolling mill spindles. Lit. proizv.
no.1:33-34 Ja '63. (MIRA 16:3)
(Rolling mills) (Bearing metals)

S/129/63/000/001/015/017
E073/E492

AUTHORS: Popov, V.S., Candidate of Technical Sciences,
Lyashchinskiy, B.I., Engineer

TITLE: Investigation of the resistance-to-abrasive-wear

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,
no.1, 1963, 51-53

TEXT: Three steels, 12XH3A (12KhN3A), 2X13 (2Kh13) and
X12Φ1 (Kh12F1), were investigated to facilitate selection of the
best material for die plates. The hardness of these steels was
substantially unaffected by the heat treatment. Under normal
shop conditions, the steel Kh12F1 (after oil-quenching from 1050
to 1075°C and tempering at 180°C) showed the highest resistance-to-
wear. Steel 2Kh13 (after carburizing and hardening) showed the
lowest abrasive wear-resistance although its chromium content was
the same as steel Kh12F1. Different types of wear were observed
when the steels 2Kh13 and Kh12F1 were subjected to the action of a
moving refractory. In addition to ordinary wear caused by chip-
removal, steel 2Kh13 developed local pitting corresponding to the
places where loose carbide particles accumulated. Steel 12KhN3A,
Card 1/2

Investigation of the resistance- ...

S/129/63/000/001/015/017
E073/E492

which has a high toughness combined with considerable strength, proved to be less resistant to abrasion than the steel 20X (20Kh) which indicated that toughness alone was not a determining factor when estimating the resistance to abrasive wear. It was found during production trials that most of the plates made of Kh12F1 steel failed due to fracture when fitting the plates into die, during operation and on re-using the plates after regrinding. This necessitated lowering the hardening temperature down to 950 - 1000°C, which did not however cause an appreciable drop in the wear-resistance although a slight reduction in hardness was inevitable. There are 2 figures. ✓

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut
(Zaporozhe Machinery Institute)

Card 2/2

POPOV, V.S., kand.tekhn.nauk; LYASHCHINSKIY, B.I., inzh.; PONOMARENKO, Ye.
P., inzh.

Heavy-duty steel-bronze parts. Mashinostroenie no.4:107-110 J1-Ag
'63. (MIRA 17:2)

1. Zaporozhskiy mashinostroitel'nyy institut im. V.Ya.Chubarya.

PGPOV, V.S., kand. tekhn. nauk; PONOMARENKO, Ye.P., inzh.;
LYASHCHINSKIY, B.I., inzh.; DROZDOV, N.G., inzh.; NEMZER, V.I.,
inzh.; VOKSHIN, I.I., inzh.

Selecting material for spindle-joint bushings of rolling mills.
Vest. mashinostr. 43 no.12:29-31 D '63. (MIRA 17:8)

LYASHCHINSKIY, B.I.; PONOMARENKO, Ye.P.; SERDYUK, V.Ye.; NAGORNIY, M.A.;
SAVCHENKO, I.P.

Automation of technological processes in the production of electrodes.
Mashinostroitel' no.8:10-11 Ag '64. (MIRA 17:10)

DUDUCHAVA, A.M., inzh.; LYASHCHUK, A.I., inzh.; BOL'SHINSKIY, M.I., inzh.;
POPOV, V.S., inzh.

Opening a coal seam with preliminary lowering of the gas pressure
in it. Shakht. stroi. 9 no.3:23-24 Mr '65.

(MIRA 18:7)

1. SU No.6 tresta Donetskshakhtostroy.

ACC NR: AT0028967

SOURCE CODE: UR/0000/65/000/000/0065/0074

AUTHOR: Boyko, V. N.; Lyashchuk, D. N.; Bobivskiy, R. A.

ORG: Western Ukrainian Geophysical Prospecting Expedition of the Ukrgeofizrazvedka Trust (Zapadno-Ukrainskaya geofizicheskaya razvedochnaya ekspeditsiya tresta Ukrgeofizrazvedka)

TITLE: Application of the plane wave-front method in the outer zone of the cis-Carpathian trough and the southwestern border of the Russian platform

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki. Seysmorazvedka s primeneniym gruppirovaniya vzryvov na dlinnykh bazakh i sposoba tsentral'nykh luchey (Seismic prospecting using the grouping of shots on long bases and the method of central rays); trudy seminar. Moscow, Izd-vo Nedra, 1965, 65-74

TOPIC TAGS: geophysical prospecting, underground explosion, seismology, wave front, seismologic research, seismic wave, seismic prospecting

ABSTRACT: The method and results of experimental investigations of the plane wave-front method (SPF) are described. This work was conducted in the outer zone of the cis-Carpathian trough and along the southwestern border of the Russian platform. Data obtained are practically

Card 1/2

ACC NR: AT6028967

identical to those obtained by the single-point method with shots grouped in 4—6 boreholes. SPF seismic profiles are largely characterized by an elongation of reflecting boundaries. Greatest effectiveness was attained on flat terrain and a reflecting boundary with an inclination angle not exceeding 4° . The use of SPF during exploration of gently sloping structures makes it possible to locate small blocks efficiently. Thus a single-sign interpretation of short cophasal axes (300—400 m) is made from which a structure may be constructed. This, however, is difficult to accomplish if other modifications of the reflected wave method are used. During correlation of reflections from boundaries inclined at angles of $4-8^{\circ}$, it is necessary to account for the systematic disagreement of individual instruments. By varying the depth of formation of the plane wave front, it is possible to eliminate or decrease the even-numbered waves from boundaries characterized by a high acoustical rigidity. Use of the plane wave-front method speeded up the work 1.5 times. Orig. art. has: 3 figures.

SUB CODE: 08/ SUBM DATE: 30Apr65/ ORIG REF: 003

Card 1/1

RABINOVICH, A.M., doktor tekhnicheskikh nauk, professor; TIKHONOV, A.V.;
~~LYASHCHUK, G.M.~~; DUMPE, V.E.; LEUTA, V.I., inzhener, redaktor;
RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[High-speed and power metal cutting] Skorostnoe i silovoe rezanie
metallov. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
Ukrainskoe otd-nie, 1955. 150 p. (MIRA 8:8)
(Metal cutting)

LYASHCHUK, P.M.

Schönlein-Henoch disease. Vrach. delo 4:131-132 Ap '62.

(MIRA 15:5)

1. Terapevticheskoye otdeleniye Podgayetskoy rayonnoy bol'nitsy
Ternopol'skoy oblasti.

(PURPURA (PATHOLOGY))

LYASHCHUK, P. M.

Clinical aspects of gasoline pneumonia. Vrach. delo no.7:130
Jl '62. (MIRA 15:7)

1. Terapevticheskoye otdeleniye Podgayetskoy rayonnoy bol'nitsy
Ternopol'skoy oblasti.

(PNEUMONIA) (GASOLINE—TOXICOLOGY)

LYASHCHUK, P.M.

Dimedrol poisoning. Vrach.delo no.11:143 N '62.

(MIRA 16:2)

1. Terapevticheskoye otdeleniye Podgayetskoy rayonnoy bol'nitsy
Ternopol'skoy oblasti.

(DIMEDROL—TOXICOLOGY)

LYASHCHUK, R., inzhener.

Drying cabinets for folded hoses. Posh.delo 3 No.6:18-19 Je '57.
(MIRA 10:7)

(Hose)

LYASHED'KO, M.; NOSOV, I.

Lumberyards in Archangel Province. Pozh.delo 4 no.11:13-14
N '58. (MIRA 11:12)

1. Nachal'nik Upravleniya pozharnoy okhrany Arkhangel'skogo
oblispolkoma (for Lyashed'ko). 2. Nachal'nik otдела Upravleniya
pozharnoy okhrany Arkhangel'skogo oblispolkoma (for Nosov).
(Archangel Province--Lumberyards--Fires and fire prevention)

ASTROLOGOV, Ye.; LYASHED'KO, M.

Aviation comes to the rescue. Pozh.delo 5 no.12:17-18
D '59. (MIRA 13:4)

1. Zamestitel' nachal'nika Upravleniya vnutrennikh del
Arkhangel'skogo oblispolkoma (for Astrologov). 2. Nachal'nik
Upravleniya pozharney okhrany Upravleniya vnutrennikh del
Arkhangel'skogo oblispolkoma (for Lyashed'ko).
(Archangel Province--Forest fires--Prevention and control)
(Aeronautics in forestry)

TOMASHEV, A.; RYABOV, I.; LYASHED'KO, M.

Experiments continue; experiments in fire extinction of
lumber piles. Pozh. delo 6 no. 11:20-21 N '60. (MIRA 13:12)

1. Zamestitel' nachal'nika Upravleniya pozharney okhrany RSFSR
(for Tomashev). 2. Zamestitel' nachal'nika Tsentral'nogo nauchno-
issledovatel'skogo instituta protivopozharney oborony (for
Ryabov). 3. Nachal'nik Upravleniya pozharney okhrany Arkhangel'-
skogo oblispolkoma (for Lyashed'ko).

(Lumber yards--Fires and fire prevention)

LYASHED'KO, M.

First experiments. Pozh.delo 6 no.4:13-15 Ap '60. (MIRA 13:11)

1. Nachal'nik Upravleniya pozharney okhrany Arkhangel'skogo oblis-
polkoma.

(Lumber yards--Fires and fire prevention)

ACC NR: AP6011265

SOURCE CODE: UR/0413/66/000/006/0109/0109

AUTHORS: Curvich, Yu. A.; Shatunovskiy, V. R.; Beskopyl'nyy, N. N.; Olad'ko, L. Ya.; Sokol, S. I.; Lyashenko, A. A.

ORG: none

TITLE: Four-pivot Cardan transmission. Class 47, No. 180023

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 109

TOPIC TAGS: mechanical power transmission device, motion mechanics

ABSTRACT: This Author Certificate presents a four-pivot Cardan transmission consisting of rollers and hinges. To produce a uniform revolution of a given machine shaft at any angle of the Cardan bend, the transmission is placed in three rigid casings (see Fig. 1). These casings are hinged to one another, and the two outside casings are rigidly connected to circular ratchet sectors in mesh. These sectors move the hinges through equal angles while the machine is working. To compensate for the excessive length of the rollers as compared with the length of the casings while the transmission undergoes bending, the roller in the middle casing is made to carry a bearing coil with prongs which enter the guides of the casing.

Card 1/2

UDC: 621.83.621.825.6

ACC NR: AP6011265

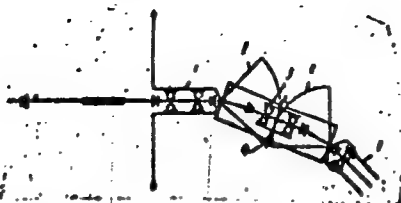


Fig. 1. 1 - rigid casings; 2 - toothed sectors; 3 - coil; 4 - guides

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 10Apr64

Card 2/2

LYASHENKO, A.F.; MUZYCHENKO, V.P.; VYAZKOVA, Ye.A.

Determination of chlorides in petroleum. Khim.i tekhn.topl.i
masel 7 no.2:65-67 F '62 F '62. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.
(Petroleum--Analysis) (Chlorides)

LYASHENKO, A.F.; VYAZKOVA, Ye.A.; NAZAROVA, K.G.

Separate determination of the calcium salts in additives by
the potentiometric method. Khim. i tekhn. topl. i masel 9
no.9:62-65 S '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i polucheniye iskusstvennogo shidkogo topliva.

LYASHENKO, A.F.

Fishes of the lower Pripet. Trudy Inst.gidrobiol.AN Ussr no.23:
55-74 '49. (MLBA 9:9)
(Pripet River--Fishes)

LYASHENKO, A.F.

Fishes of the lower Danube and their commercial importance. Trudy
Inst.gidrobiol.AN URSR no.27:28-66 '52. (MLRA 9:8)
(Danube--Fishes)

LYASHENKO, Aleksandr Fedorovich [Liashenko, O.F.]; VLADIMIROV, V.I., doktor
biolog.nauk, red.; BRAGINS'KIY, L.P., red.; SEL'YAROVA, V. Ye.,
[Skli'arova, V.IE.], tekhn.red.

[Biology of the young commercial varieties of fish in the Lower
Dnieper and the Dnieper-Bug estuary]. Biologiya molodi promyslovykh
vydiv ryb nizhn'oho Dnipra i Dniprovs'ko-Buz'koho lymanu. Kyiv,
Vyd-vo Akad.nauk URSS, 1958. 114 p. (MIRA 12:2)
(Dnieper River--Fishes)

LYASHENKO, A.F.

Materials on the biology of young pike perch during the first two
years of life in Kakhovka Reservoir. Vop.ikht. no.17:56-67 '61.
(MIRA 14:5)

1. Institut gidrobiologii AN USSR.
(Kakhovka Reservoir---Perch)

LYASHENKO, A.F.

Specific composition and abundance of fish fry in Kakhovka Reservoir.
Vop. ekol. 5:121-123 '62. (MIRA 16:6)

1. Institut gidrobiologii AN UkrSSR, Kiev.
(Kakhovka Reservoir--Fishes)

MUZYCHENKO, V.P.; LYASHENKO, A.F.

Stability of various ethylated aviation gasolines. Khim. i tekhn. topl. i masel 3 no.9:43-48 S '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotki nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.
(Airplanes--Fuel) (Antioxidants)

LYASHENKO, A.G.

Trilonometric determination of aluminum in ores. Obog. rud
4 no.5:23-25 '59. (MIRA 14:8)
(Ores--Analysis) (Aluminum--Analysis)

LYASHENKO, A.G.; SIVERTSEV, G.I.

Improved equipment for the potentiometric determination of manganese
content. Obog. rud 4 no.1:32-33 '59. (MIRA 14:8)
(Potentiometric analysis) (Manganese--Analysis)

GTRSPL, Vol. 5, No. 1

Lyashenko, A.I., Comparison of the Devonian deposits on the Russian platform
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1. LYASHENKO, A. I.
2. SSSR (600)
4. Geology, Stratigraphic-Khvorostan'-Nadomu
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LYASHENKO, A. I.

YEGOROV, V.G., kandidat geolog-mineralogicheskikh nauk; UL'YANOV, A.V., professor, redaktor; TIKHONOVICH, N.N., professor, redaktor [deceased]; VEBER, V.V., professor, redaktor; FILIPPOVA, M.F., kandidat nauk, redaktor; LYASHENKO, A.I., kand. nauk, redaktor; POZNYSH, M.A., nauchnyy redaktor; MENNER, V.V., redaktor; MARKUS, M.G., vedushchiy redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Ostracoda of the Frasnian stage of the Russian platform] Ostrakody franskogo iarusu russoi platformy. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry. Pt. 2. Bairdiidae, Hollinidae, Kirkbyidae. 1953. 135 p. [Microfilm] (MIRA 7:10)
(Ostracoda, Fossil)

- [illegible]

1 Jun 53

LYASHENKO, A. I.

USSR/Geology - Carbonates

"Mosolovskiy Horizon," A. I. Lyashenko

DAN SSSR, Vol 91, No 1, pp 149-152

Studied fauna of brachiopods in numerous wells in the boundaries of the Mosolovskiy-Pachelmskiy depression and was able to separate a carbonate stratum, which lay in the upper part of the sulfate-carbonate complex of the middle Devonian, into an independent stratigraphical horizon named "Mosolovskiy" for the mosolovskiy well. Presented by Acad D. V. Nalivkin, 30 Mar 53.

266T65

LYASHENKO, A.I.; NALIVKIN, D.V., akademik.

The Vorob'evka horizon. Dokl.AN SSSR 92 no.1:139-142 S '53. (MLRA 6:8)

1. Akademiya nauk SSSR (for Nalivkin). 2. Moskovskiy filial Vsesoyuznogo
neftyanogo nauchno-issledovatel'skogo geologo-razvedochnogo instituta (for
Lyashenko). (Vorob'evka--Geology) (Geology--Vorob'evka)

LYASHENKO, A.I.

Stratigraphy and fauna of the Middle Devonian deposits of central regions of the Russian Platform. *Byul.MOIP. Otd.geol.* 29 no.3: (MLRA 7:8)
87-89 My-Je '54.
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LYASHENKO, A. I.

Stratigraphy and fauna of the Frasnian in the upper Devonian of
the central regions of the Russian Platform. Biul. MOIP. Otd.
geol. 30 no. 3: 86-88 My-Je'55. (MIRA 8:10)
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